



# Site Assessment & Mitigation Water Quality Improvement Goal

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Department of Environmental  
Health

Site Assessment & Mitigation  
Program



# **SAM's MTBE Goal / Performance Measure**



**"Reduce the Average Concentration of  
MTBE at Known Sites in Groundwater  
Dependant Areas by 50% by 2006".**



# Why a New Performance Measure/Goal



We were given the task of coming up with new Performance Goals/Measures, which are more meaningful, especially to the general public.

Such as the improvement to the environment or higher compliance rates, versus the old method of counting activities such as inspections, number of cases, or revenue collected.



## Why a New Performance Measure/Goal - Continued -



We selected MTBE as one of our New Performance Measure/Goal, because it poses a significant risk to the California Environment (per the Governor's Executive Order D-5-99)

In addition, Senate Bill 989, directed the SWRCB to develop standards for the investigation and cleanup of MTBE, which are now mandates for our LOP Program.



# Current Performance Measure



For the VAP & LOP Programs, we are currently reporting the total number of open cases, the actual number worked, the total cost and the cost per case. This data is then represented in table fashion.

**DEPARTMENT OF ENVIRONMENTAL HEALTH**  
**SUMMARY OF PERFORMANCE MEASURES, FY 2002/03 (Continued)**

Year to Date through Payroll 5 (ARMS 3) July 1, 2001-September 5, 2002 % of Yr Elapsed: 18.36%	PRODUCTION UNITS			PRODUCTION COSTS			PRODUCTION EFFICIENCY		
	Budgeted	Actual	Percent of	Budgeted	Actual	Percent of	Budgeted Cost	Actual Cost	Var Actual
	Production	Production	Budget	Production	Production	Budget	per Prod	per Prod	Efficiency
	Unit Rate	Units	Achieved	Cost	Cost	Achieved	Unit	Unit	to Budgeted
<b>ACTIVITY G: SOLID WASTE/LEA</b>									
SOLID WASTE FACILITY INSP	270	51	18.89%	\$387,250	\$56,593	14.61%	\$1,434.26	\$1,109.67	(\$324.59)
H/H HAZ. WASTE DISPOSAL (LBS.)	225,000	108,149 (1)	48.07%	\$796,814	\$33,053	4.15%	\$3.54	\$0.31	(\$3.24)
<b>ACTIVITY H: SITE ASSESSMENT &amp; MITIGATION CONTAMINATED SITE OVERSIGHT</b>									
LOCAL OVERSIGHT PROGRAM	1,142	600	52.54%	\$1,836,750	\$332,066	18.08%	\$1,608.36	\$553.44	(\$1,054.92)
VOLUNTARY ASSISTANCE PROGRAM	131	107	81.68%	\$191,318	\$39,312	20.55%	\$1,460.44	\$367.40	(\$1,093.04)
<b>TOTAL ACTIVITY H</b>	1,273	707	55.54%	\$2,028,068	\$371,378	18.31%	\$1,593.14	\$525.29	(\$1,067.85)
<b>ACTIVITY I: RECREATIONAL WATER QUALITY AND/OR PROP. 65 NOTIFICATIONS</b>	800	134	16.75%	\$38,163	\$7,528	19.73%	\$47.70	\$56.18	\$8.48

(1) # of pounds of H/H Waste Disposal includes: Poway 3,297 lbs.; Vista 35,357 lbs.; Miramar (not available); Ramona 9,825 lbs.; El Cajon 17,977 lbs.; Temporary Events 41,693 lbs., and is for the period of 7/1/02 through 8/31/02.



# New Performance Measure

We created a MTBE Performance Measure/Goal spreadsheet for tracking, with the data coming from our KIVA Data Management System.

The following is an outline:

- We updated our MTBE data for each site, and have established the benchmark for the tracking of the reduction.

# New Performance Measure - Continued -

- ◆ The data within KIVA used for this project is the historic high groundwater concentration of MTBE (ppb) and the current high groundwater concentration of MTBE (ppb).
- ◆ We established a benchmark based on the current high concentration of MTBE.
- ◆ The reduction will be measured from this benchmark.



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## - Continued -

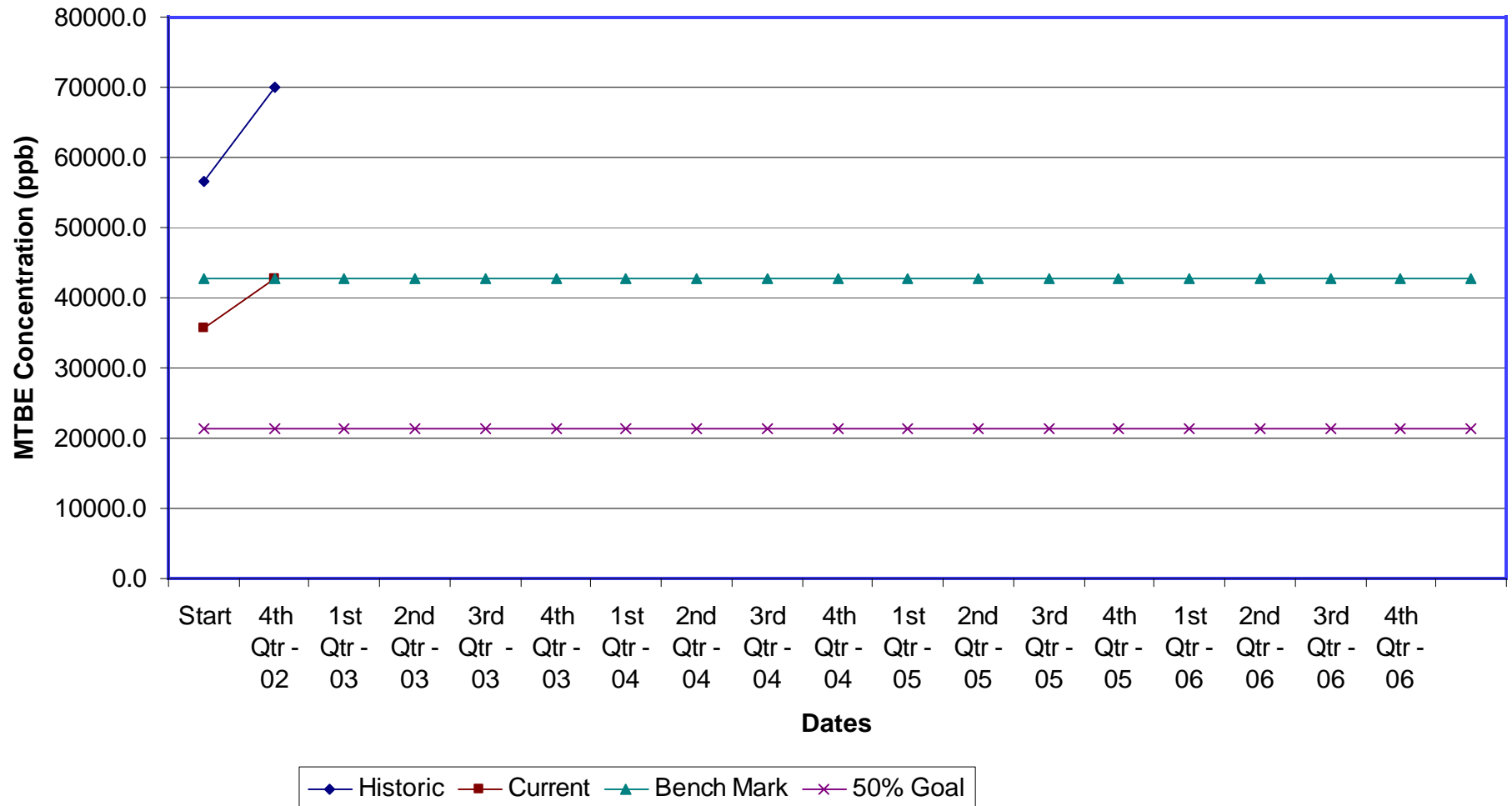
- ◆ We will use same cases throughout.
- ◆ This benchmark is indicated on the MTBE Goal spreadsheet.
- ◆ Our 50% reduction goal is indicated on the MTBE Goal spreadsheet.
- ◆ We started the tracking January 2003.

# MTBE Tracking Chart

Data is by Quarter		The standard of industry is to report groundwater monitoring events quarterly			
Date	Historic	Current	Bench Mark	Number of Cases	Percentage Reduction
Calendar Year	High Concentration	High Concentration			from Bench Mark
	Average per Case	Average per Case			50%
	ppb	ppb			Goal
Start	56655.2	35600.0	42641.6	333	21320.8
4th Qtr - 02	70028.1	42641.6	42641.6	359	21320.8
1st Qtr - 03			42641.6		21320.8
2nd Qtr - 03			42641.6		21320.8
3rd Qtr - 03			42641.6		21320.8
4th Qtr - 03			42641.6		21320.8
1st Qtr - 04			42641.6		21320.8
2nd Qtr - 04			42641.6		21320.8
3rd Qtr - 04			42641.6		21320.8
4th Qtr - 04			42641.6		21320.8
1st Qtr - 05			42641.6		21320.8
2nd Qtr - 05			42641.6		21320.8
3rd Qtr - 05			42641.6		21320.8
4th Qtr - 05			42641.6		21320.8
1st Qtr - 06			42641.6		21320.8
2nd Qtr - 06			42641.6		21320.8
3rd Qtr - 06			42641.6		21320.8
4th Qtr - 06			42641.6		21320.8
			42641.6		21320.8

# MTBE Tracking Graph

**MTBE Goal "Reduce the Average Concentration of MTBE at Known Sites in Groundwater Dependant Areas by 50% by 2006"**



# What does this Mean for you?

- ◆ Use of the current high groundwater concentration of MTBE
- ◆ SWRCB Guidelines for the Investigation and Cleanup of MTBE
- ◆ Ongoing Releases
- ◆ Vapor Releases
- ◆ Changing to Ethanol
- ◆ Other??